

FIG.1

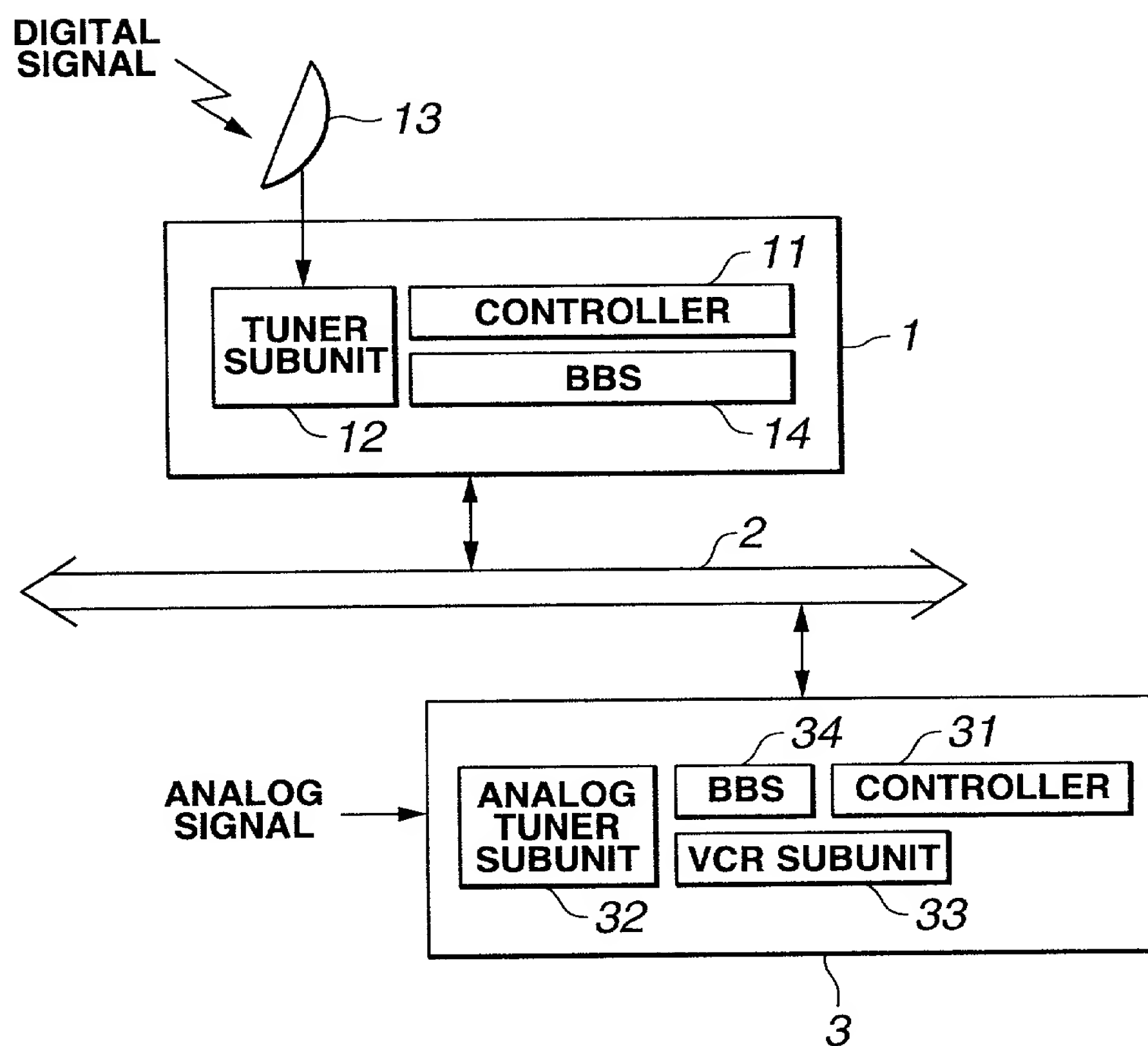


FIG.2

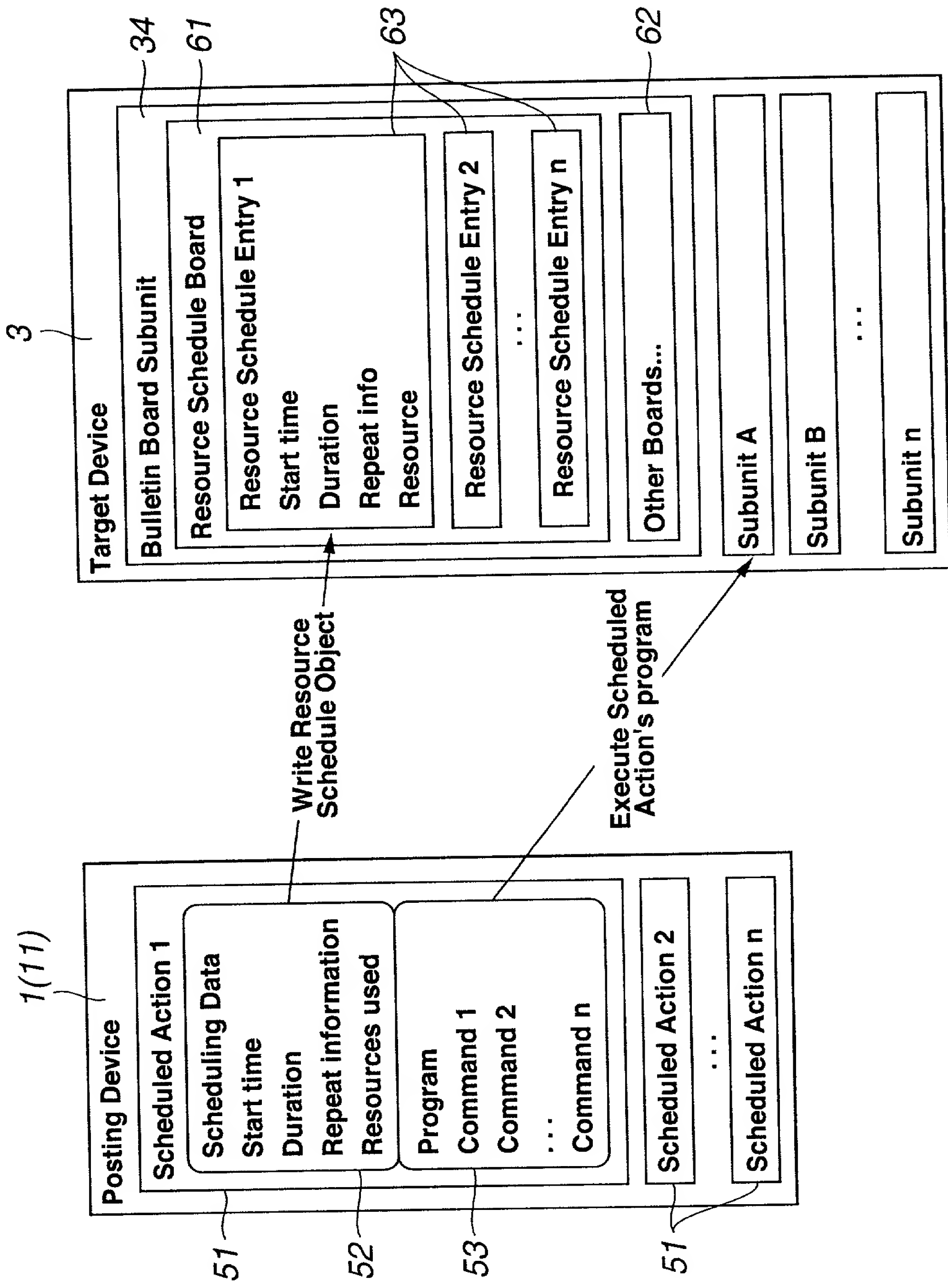


FIG.3

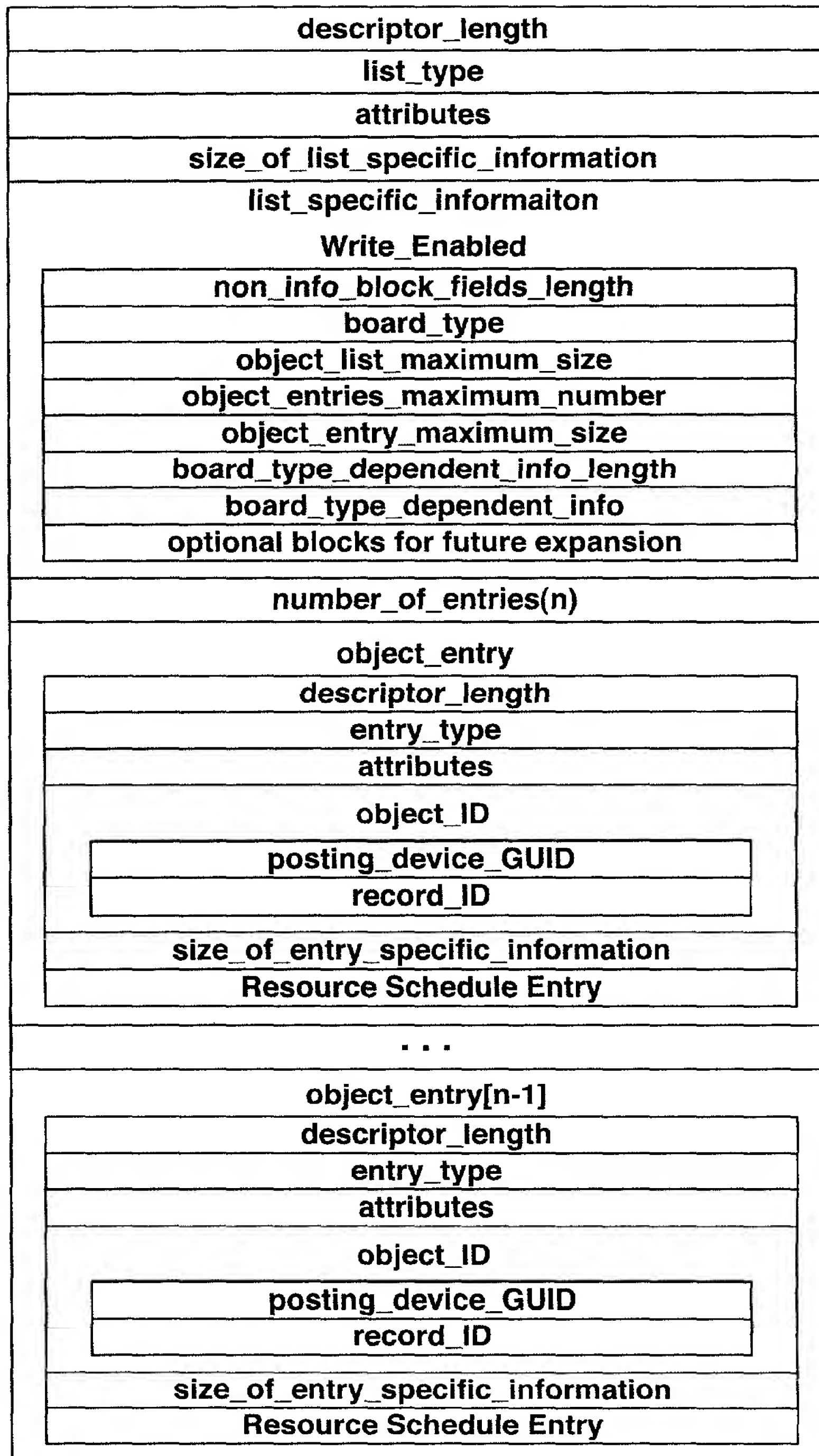


FIG.4

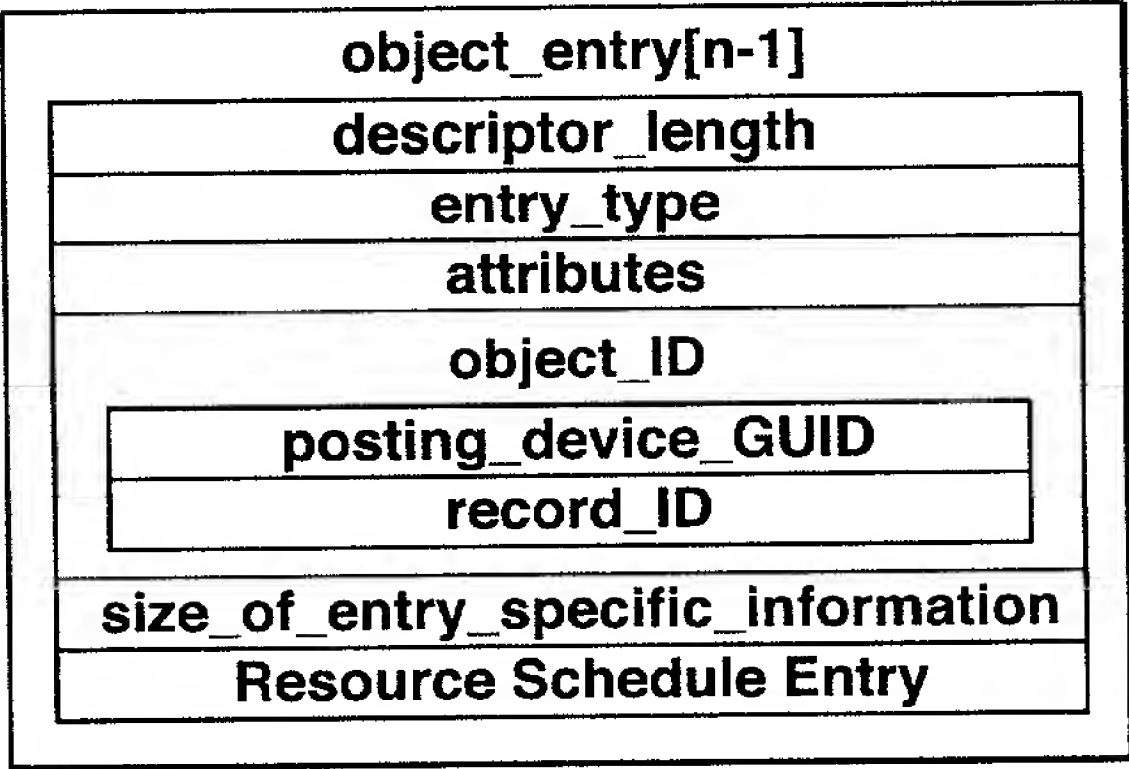
00000000 00000000 00000000 00000000

Address_offset	Contents
00 ₁₆	non_info_block_fields_length
01 ₁₆	
02 ₁₆	board_type
03 ₁₆	object_list_maximum_size
04 ₁₆	
05 ₁₆	object_entries_maximum_number
06 ₁₆	
07 ₁₆	object_entry_maximum_size
08 ₁₆	
09 ₁₆	board_type_dependent_information_length
0A ₁₆	
0B ₁₆	board_type_dependent_information
0C ₁₆	
0D ₁₆	
:	optional info blocks for future expansion
:	
:	

FIG.5

Value	Board type
00 ₁₆	Reserved
01 ₁₆	Resource Schedule Board
02 ₁₆ -FF ₁₆	Reserved for future specification

FIG.6



Resource Schedule Entry high level view

FIG.7

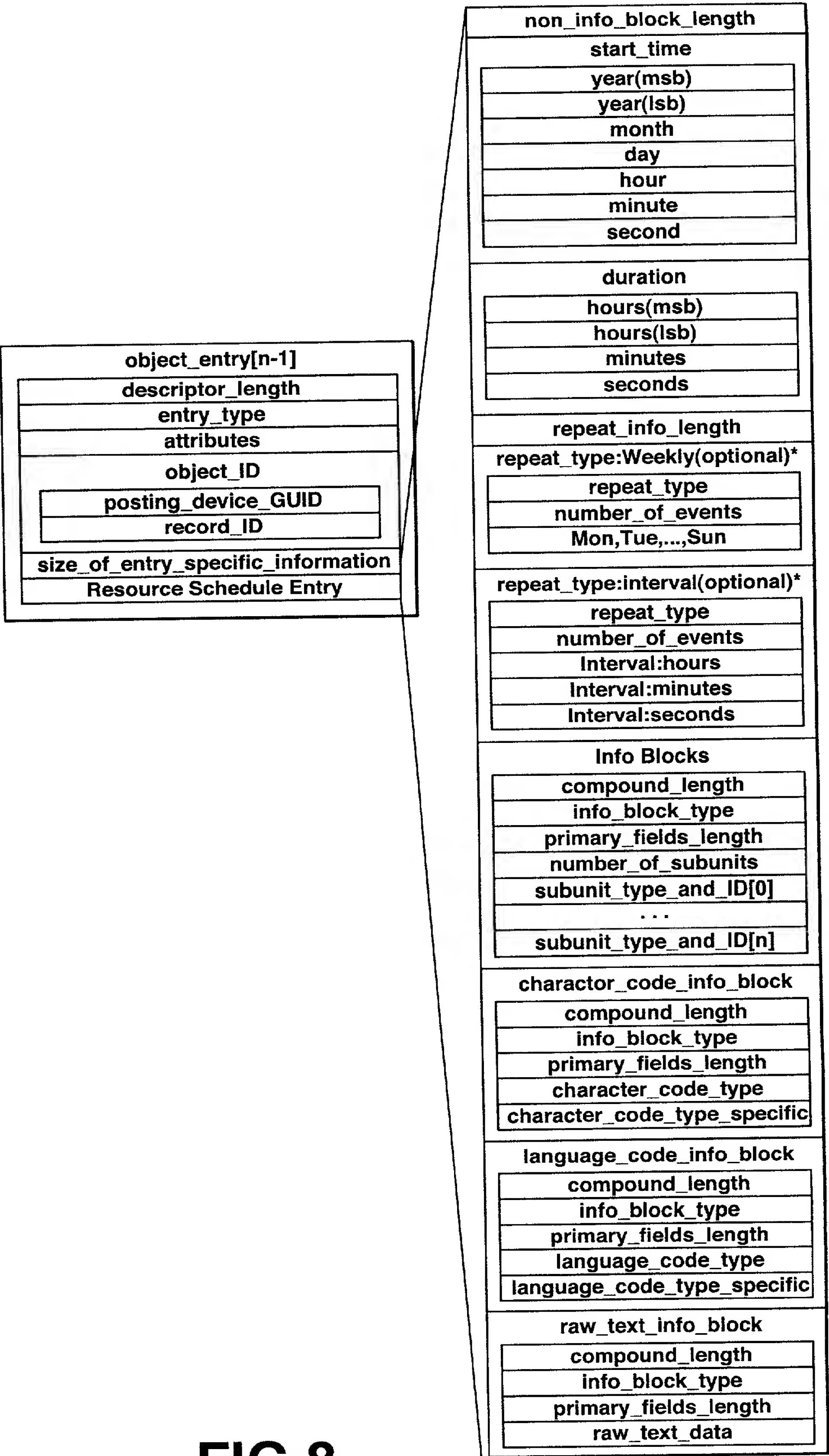


FIG.8

[illegible]

Address_offset	Contents
00 ₁₆	year(msb)
01 ₁₆	year(lsb)
02 ₁₆	month
03 ₁₆	day
04 ₁₆	hour
05 ₁₆	minute
06 ₁₆	second

FIG.9

Address_offset	Contents	
00 ₁₆	Reserved(4 bits)	hours(msb)
01 ₁₆	hours(lsb)	
02 ₁₆	minutes	
03 ₁₆	seconds	

FIG.10

00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000

Values	definition
00 ₁₆	Weekly schedule
01 ₁₆ -0F ₁₆	reserved
10 ₁₆	Interval schedule
0F ₁₆ -FF ₁₆	reserved

FIG.11

	msb							lsb
address_offset	contents							
0E ₁₆	repeat_type							
0F ₁₆	number_of_events							
10 ₁₆	Sunday	Monday	Tuesday	Wed- nesday	Thurs- day	Friday	Saturday	Reserved

FIG.12

address_offset	contents	
0E ₁₆	repeat_type	
0F ₁₆	number_of_events	
10 ₁₆	Reserved(4 bits)	Interval:hours(msb)
11 ₁₆	interval:hours(lsb)	
12 ₁₆	interval:minutes	
13 ₁₆	interval:seconds	

FIG.13

address_offset	contents	
00 ₁₆	compound_length	
01 ₁₆		
02 ₁₆	info_block_type	
03 ₁₆		
04 ₁₆	primary_fields_length	
05 ₁₆		
06 ₁₆	number_of_subunits	
07 ₁₆	subunit_type_and_ID[0]	
:	:	

FIG.14

character_code_info_block	
Adress_offset	Contents
00 00 ₁₆	compound_length
00 01 ₁₆	
00 02 ₁₆	info_block_type=00 08 ₁₆ (character_code_info_block)
00 03 ₁₆	
00 04 ₁₆	primary_fields_length
00 05 ₁₆	
00 06 ₁₆	character_code_type
00 07 ₁₆	character_code_type_specific
:	
:	

FIG.15

language_code_info_block	
Adress_offset	Contents
00 00 ₁₆	compound_length
00 01 ₁₆	
00 02 ₁₆	info_block_type=00 09 ₁₆ (language_code_info_block)
00 03 ₁₆	
00 04 ₁₆	primary_fields_length
00 05 ₁₆	
00 06 ₁₆	language_code_type
00 07 ₁₆	language_code_type_specific
:	
:	

FIG. 16

Table 1. Demographic characteristics of the study population	
Age (years)	Mean (SD)
Male	55.2 (10.5)
Female	58.5 (11.2)
Marital status	
Married	78.5%
Single	21.5%
Education level	
High school or above	65.2%
Below high school	34.8%
Occupation	
White collar	45.5%
Blue collar	54.5%
Income (USD/month)	
< 1000	15.2%
1000-2000	35.5%
> 2000	49.3%
Health insurance	
Yes	85.5%
No	14.5%
Comorbidities	
Hypertension	32.5%
Diabetes	18.5%
Cholesterol	25.5%
Smoking status	
Current smoker	12.5%
Former smoker	18.5%
Non-smoker	69.0%
Alcohol consumption	
Regular	8.5%
Occasional	15.5%
Never	76.0%

raw_text_info_block	
Adress_offset	Contents
00 00 ₁₆	compound_length
00 01 ₁₆	
00 02 ₁₆	info_block_type=00 0A ₁₆ (raw_text_info_block)
00 03 ₁₆	
00 04 ₁₆	primary_fields_length
00 05 ₁₆	
00 06 ₁₆	raw_text_data
:	
:	

FIG.17

raw_text_data
CHANNEL
PROGRAM TITLE (PROGRAM)
CONTROL INFORMATION (REPLAY, RECORDING, STOP, ETC.)
REMARKS (PAY PER VIEW)
PROVIDER
PRELIMINARILY RESERVED

FIG. 18

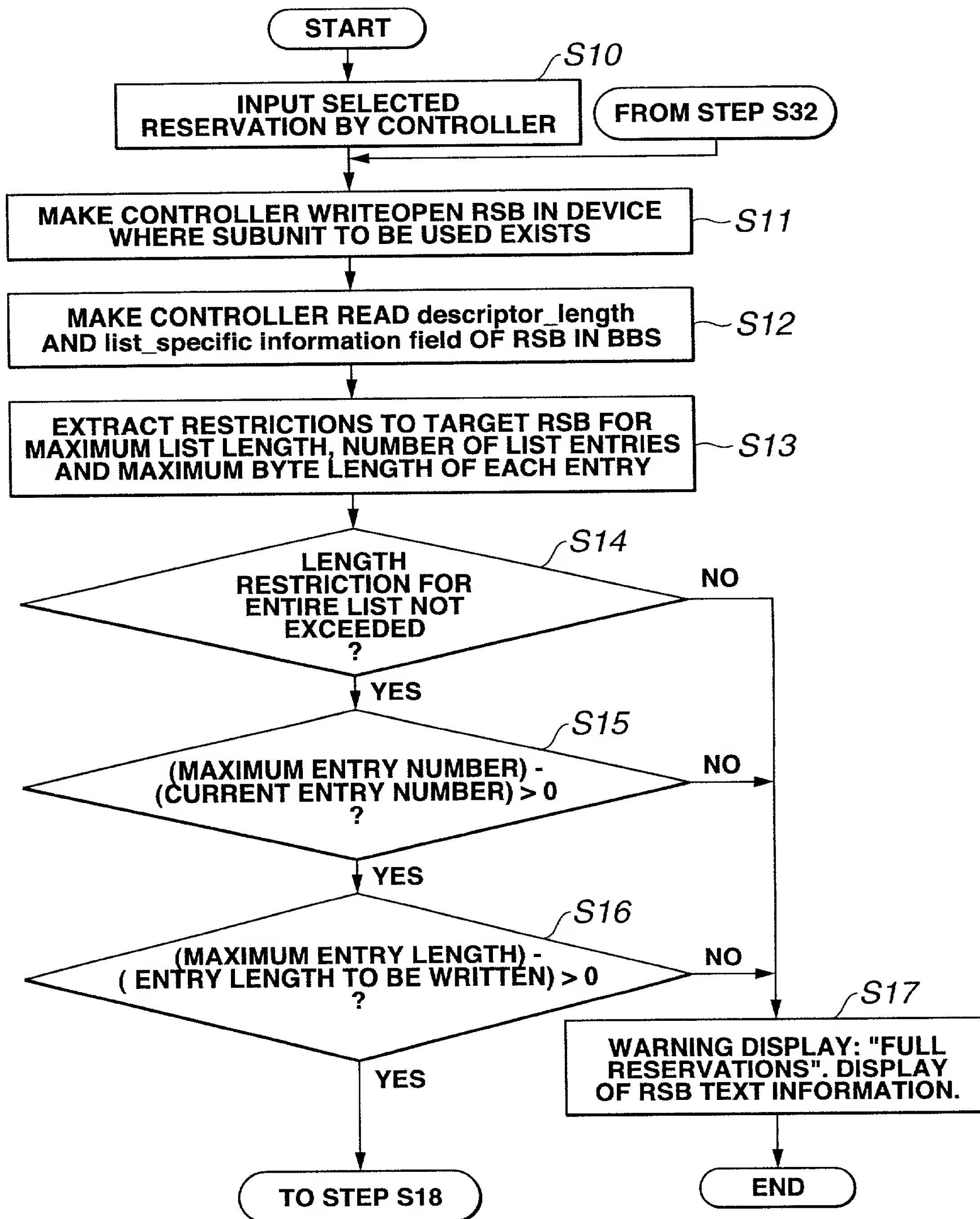


FIG.19

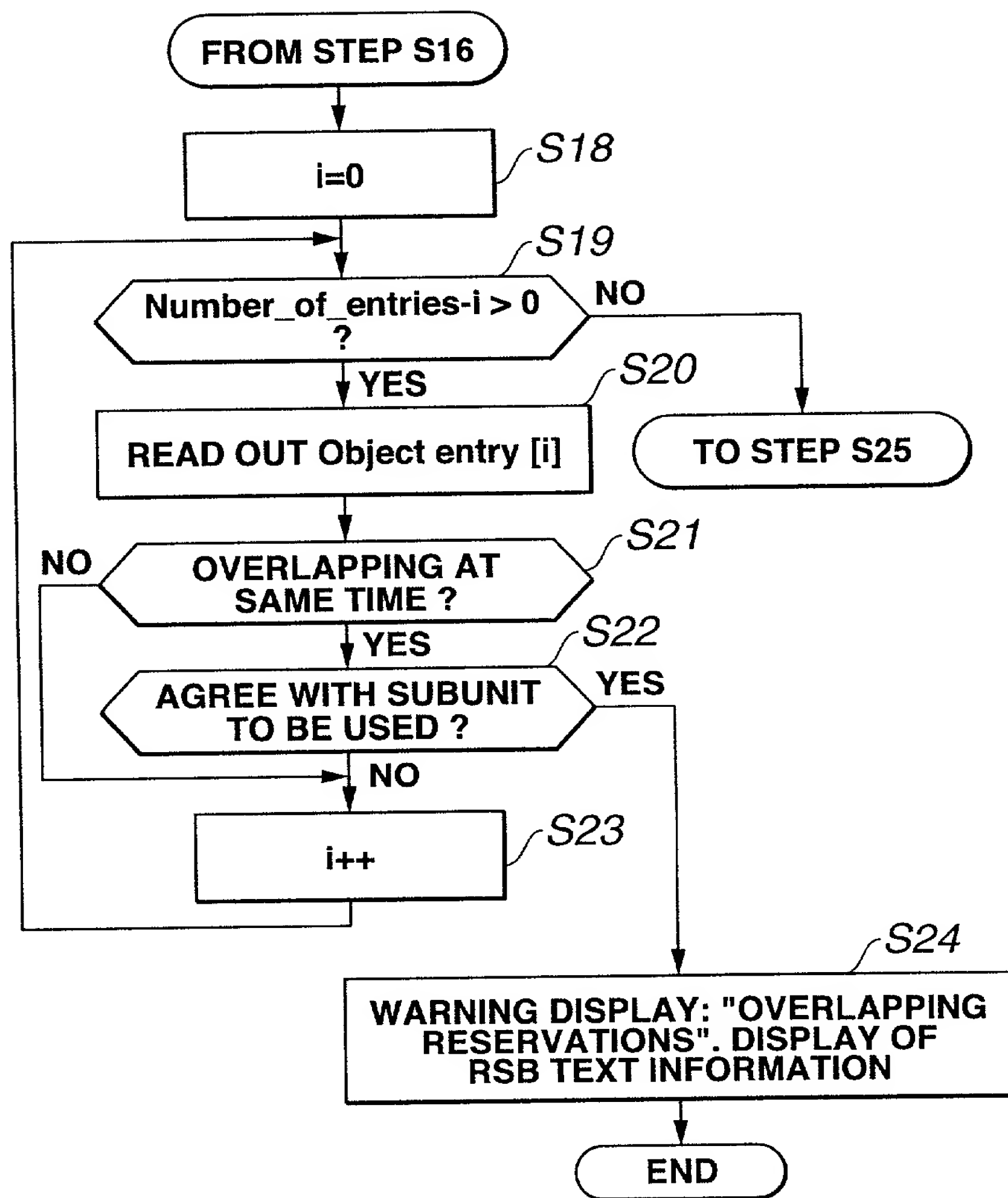


FIG.20

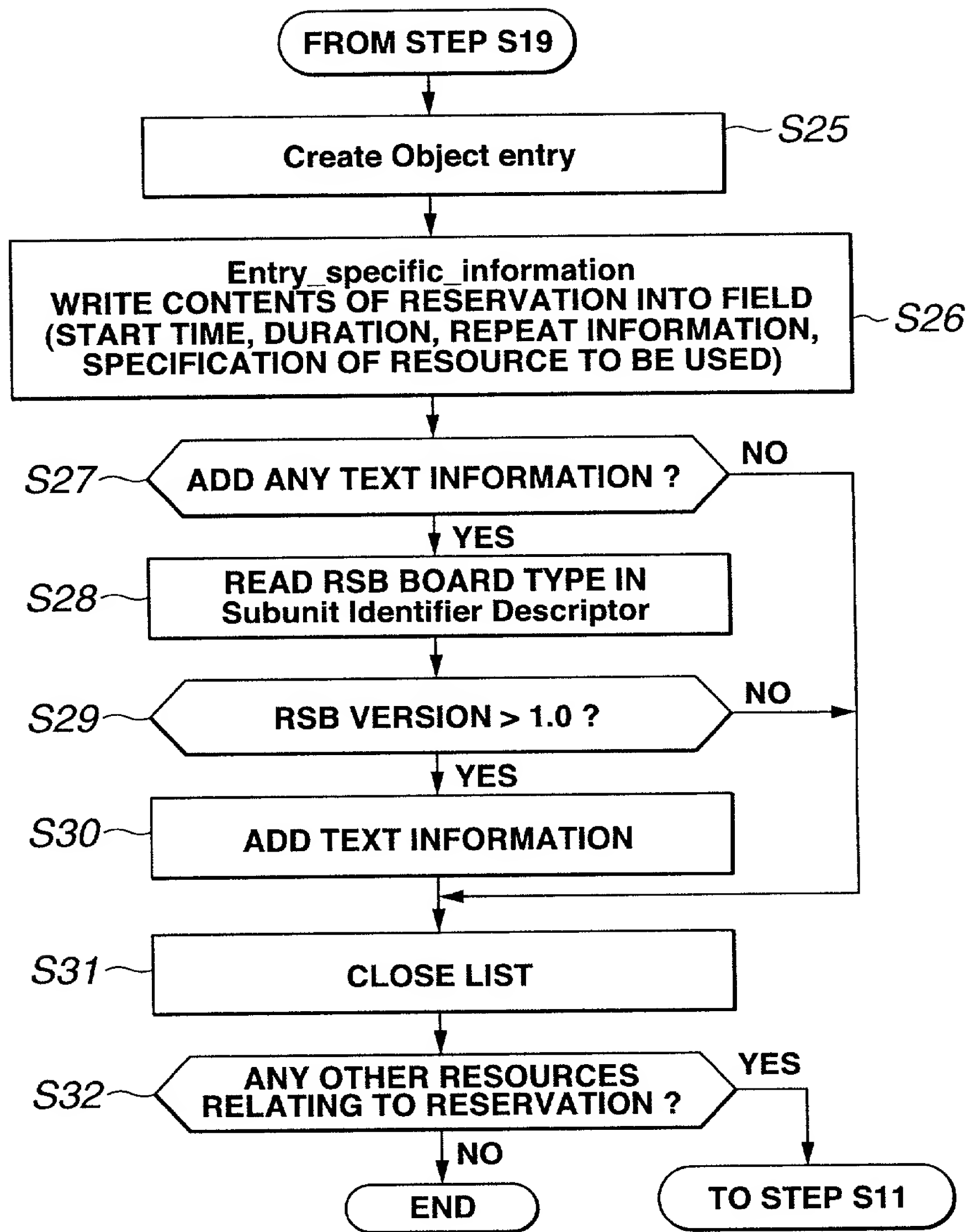


FIG.21

opcode	OPEN DESCRIPTOR
operand 0	descriptor_type=10 ₁₆
operand 1	List ID:00 ₁₆
operand 2	List ID:01 ₁₆
operand 3	subfunction WRITE OPEN 03 ₁₆
operand 4	reserved 00 ₁₆

FIG.22

	msb						lsb
opcode	READ DESCRIPTOR (09 ₁₆)						
operand 0	descriptor identifier						
operand 1	:						
:	:						
:	read_result_status						
:	reserved : 00 ₁₆						
:	data_length						
:	address						

FIG.23

	msb						lsb
opcode	CREATE DESCRIPTOR (00 ₁₆)						
operand 0	result						
operand 1	subfunction_1						
operand 2	reserved						
operand 3	subfunction_1_specification						
:							
:							

FIG.24

values of subfunction_1	meaning
00 ₁₆	create a new descriptor
01 ₁₆	create a new object and its child list
all other values	reserved for future specification

FIG.25

subfunction_1_specification for subfunction_1=01 ₁₆								
	msb							lsb
operand 3	descriptor_identifier_where							
:								
:								
:	descriptor_identifier_what_1							
:								
:								
:	descriptor_identifier_what_2							
:								
:								

FIG.26

descriptor_type of descriptor_identifier_ where	descriptor_type of descriptor_identifier_ what_1	descriptor_type of descriptor_identifier_ what_2	meaning
20 ₁₆	22 ₁₆	11 ₁₆	Create an object and its child list. create the new object and place it in the location specified by where, the entry_type is specified by what_1. Also create the new list as the child of the new object. The list_type is specified by what_2.
all other values			reserved for future specification

FIG.27

opcode	WRITE DESCRIPTOR (OA ₁₆)
operand 0	descriptor identifier
:	subfunction:partial_replace(50 ₁₆)
:	group_tag:immediate(00 ₁₆)
:	replacement_data_length
:	address
:	original_data_length
:	replacement_data

FIG.28

descriptor_length
generation_ID
size_of_list_ID
size_of_object_ID
size_of_object_position
number_of_root_object_lists(n)
root_object_list_id_0
...
root_object_list_id_n-1
subunit_dependent_information_length
subunit_dependent_information
non_info_block_fields_length
bulletin_board_subunit_version
number_of_supported_board_types(n)
supported_board_type_specific_info_length[0]
supported_board_type_specific_info[0]
supported_board_type
supported_board_type_version
implementation_profile_ID
supported_board_type_dependent_info_length
supported_board_type_dependent_info
...
supported_board_type_specific_info_length[n-1]
supported_board_type_specific_info[n-1]
supported_board_type
supported_board_type_version
implementation_profile_ID
supported_board_type_dependent_info_length
supported_board_type_dependent_info
optional blocks for future expansion
manufacturer_dependent_length
manufacturer_dependent_information

FIG.29

Value	List definition
1001 ₁₆	Resource Schedule List
1002-10FF ₁₆	reserved

FIG.30

Address_offset	Contents
00 ₁₆	supported_board_type
01 ₁₆	supported_board_type_version
02 ₁₆	implementation_profile_ID
03 ₁₆	supported_board_type_dependent_information_length
04 ₁₆	
05 ₁₆	
:	supported_board_type_dependent_information
:	

FIG.31

09261463 001601

opcode	OPEN DESCRIPTOR
operand 0	descriptor_type=10 ₁₆
operand 1	List ID:00 ₁₆
operand 2	List ID:01 ₁₆
operand 3	subfunction CLOSE 00 ₁₆
operand 4	reserved 00 ₁₆

FIG.32

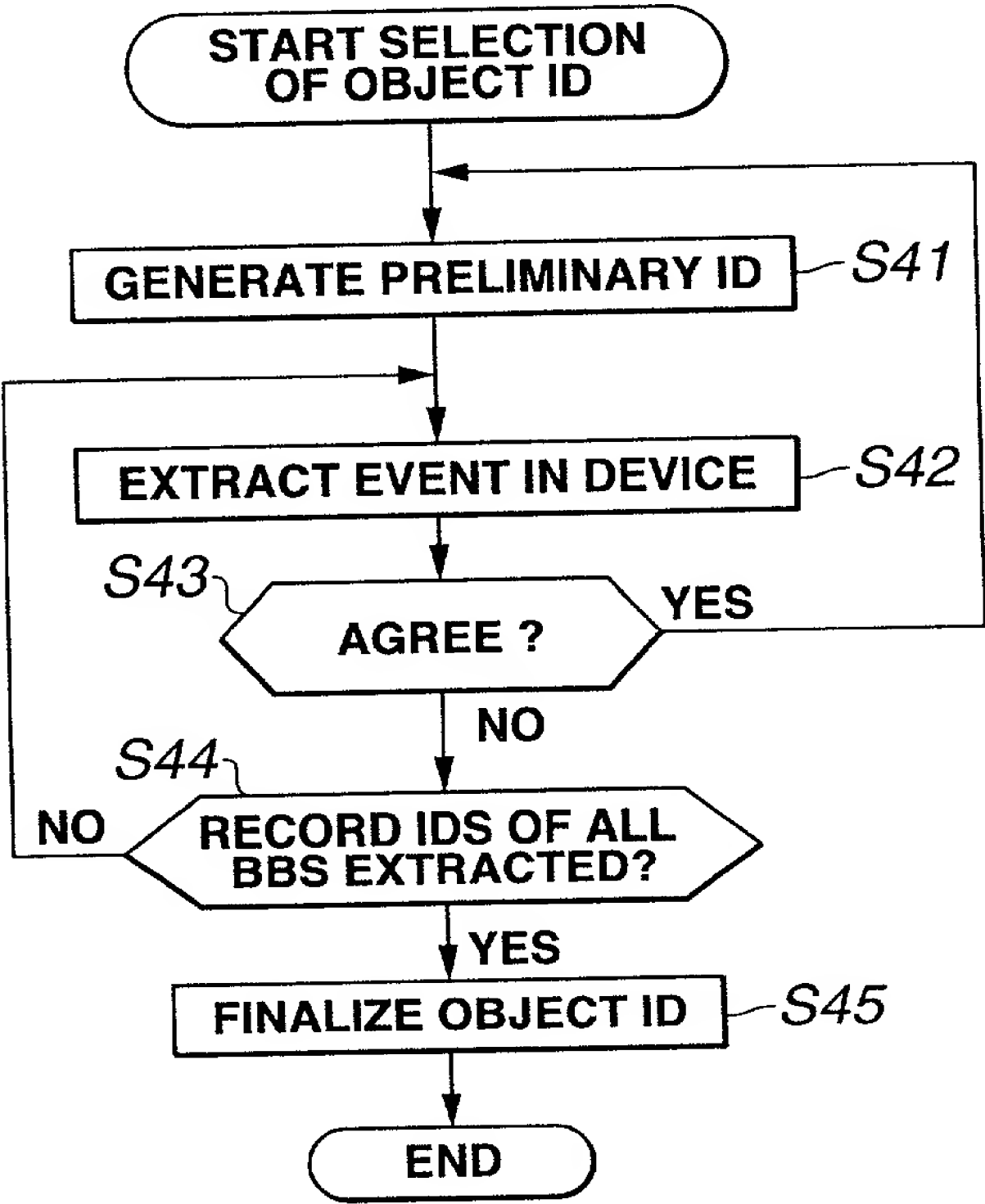
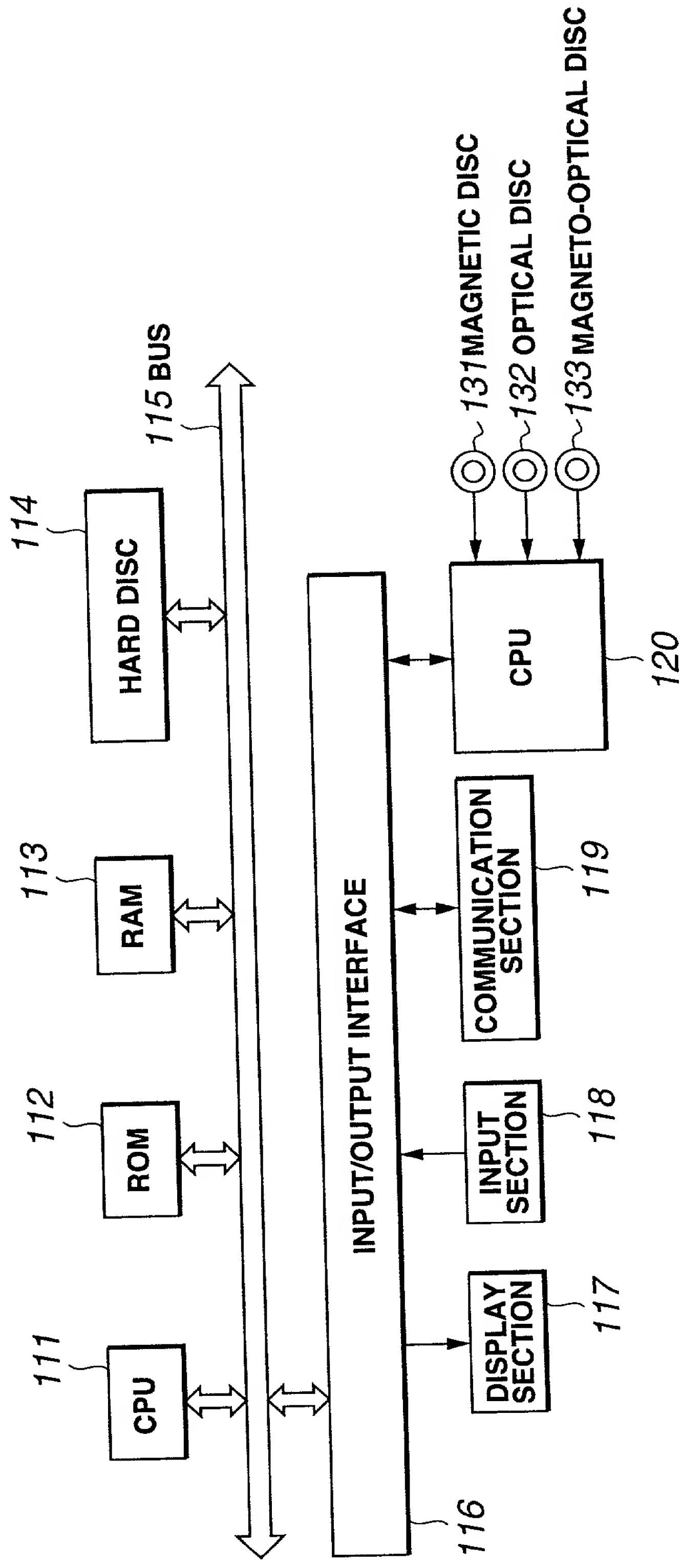


FIG.33



101

FIG. 34